

# Most Frequent Digit and Arithmetic Operation :

PROGARM :

```
package com.company;
import java.util.*;
public class Main {
    public static void MostFrequentDigit(int input1, int input2, int
input3, int input4) {
        ArrayList<Integer> array = new ArrayList<>();
        while (input1 != 0) {
            int remainder = input1 % 10;
            array.add(remainder);
            input1 /= 10;
        }
        while (input2 != 0) {
            int remainder = input2 % 10;
            array.add(remainder);
            input2 /= 10;
        }
        while (input3 != 0) {
            int remainder = input3 % 10;
            array.add(remainder);
            input3 /= 10;
        }
        while (input4 != 0) {
            int remainder = input4 % 10;
            array.add(remainder);
            input4 /= 10;
        }
        Integer[] arr = new Integer[array.size()];
        arr = array.toArray(arr);
        int a[];
        int t = 0;
        a = new int[arr.length];
        for (int i = 0; i < arr.length; i++) {
            int count = 0;
            for (int j = i + 1; j < arr.length; j++) {
                if (arr[i] == arr[j] && i != j) {
                    count++;
                }
            }
            a[t] = count;
            t++;
        }
        int b[] = new int[a.length];
        for (int i = 0; i < a.length; i++)
            b[i] = a[i];
        Arrays.sort(b);
        int s = b.length - 1;
        int e = 1;
        for (; s > 0; s--) {
            int lt = b.length - 1;
            if (b[lt] != b[lt - 1]) {
                int i = 0;
                int index = -1;
            }
        }
    }
}
```

```

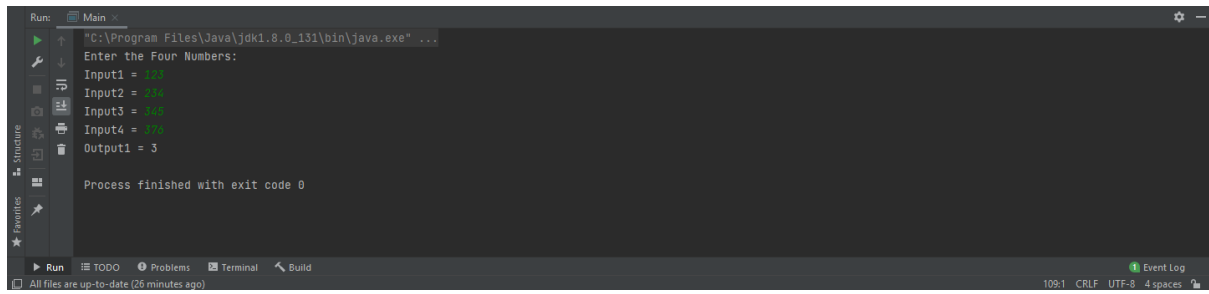
        while (i < a.length) {
            if (a[i] == b[s]) {
                index = i;
                break;
            }
            i++;
        }
        System.out.println("Output1 = " + arr[index]);
        break;
    } else if (b[s] == b[s - 1]) {
        e++;
    } else {
        break;
    }
}
if (b[a.length - 1] == b[a.length - 2]) {
    int result[];
    result = new int[a.length];
    int p = a.length - e;
    int i = 0;
    int y = 0;
    while (i < a.length) {
        if (a[i] == b[p]) {
            result[y] = i;
            y++;
        }
        i++;
    }
    int equal[];
    equal = new int[a.length];
    for (int x = 0; x < e; x++) {
        equal[x] = arr[result[x]];
    }
    int max = equal[0];
    for (int x = 0; x < e; x++) {
        max = Math.max(max, equal[x]);
    }
    System.out.println("Output1 = " + max);
}

}

public static void main(String args[]) {
    int a, b, c, d;
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter the Four Numbers:");
    System.out.print("Input1 = ");
    a = sc.nextInt();
    System.out.print("Input2 = ");
    b = sc.nextInt();
    System.out.print("Input3 = ");
    c = sc.nextInt();
    System.out.print("Input4 = ");
    d = sc.nextInt();
    MostFrequentDigit(a, b, c, d);
    sc.close();
}
}

```

OUTPUT :



The screenshot shows an IDE's Run console window. The title bar reads 'Run: Main'. The console output is as follows:

```
"C:\Program Files\Java\jdk1.8.0_131\bin\java.exe" ...  
Enter the Four Numbers:  
Input1 = 12  
Input2 = 13  
Input3 = 14  
Input4 = 15  
Output1 = 3  
  
Process finished with exit code 0
```

The left sidebar contains icons for 'Structure' and 'Favorites'. The bottom status bar shows 'Run', 'TODO', 'Problems', 'Terminal', and 'Build' tabs. On the far right, it displays 'Event Log', '100:1 CRLF UTF-8 4 spaces', and a magnifying glass icon. A message at the bottom left states 'All files are up-to-date (26 minutes ago)'.